

Abstract of the Disclosure

A monitoring system for an air conditioning / refrigeration unit is disclosed that includes a microprocessor and a plurality of inputs operatively connected to the microprocessor for receiving data from a plurality of sensors operatively connected to the air conditioning / refrigeration unit. A memory operatively connected to the microprocessor stores data describing a pressure enthalpy diagram for at least one refrigerant and a nominal pressure enthalpy path for the ACR unit being monitored. The microprocessor uses data received at the inputs for calculating an actual pressure enthalpy path for the ACR unit and displaying the calculated pressure enthalpy path and the nominal system pressure enthalpy path on a display. A method for monitoring an air conditioning / refrigeration system is also disclosed.